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09/902,027	07/10/2001	Pekka Marjelund	975.357USW1	1526
32294	7590	08/01/2005	EXAMINER	
SQUIRE, SANDERS & DEMPSEY L.L.P.			PEZZLO, JOHN	
14TH FLOOR			ART UNIT	
8000 TOWERS CRESCENT			PAPER NUMBER	
TYSONS CORNER, VA 22182			2662	

DATE MAILED: 08/01/2005

Please find below and/or attached an Office communication concerning this application or proceeding.

## Office Action Summary

Application No.

09/902,027

Applicant(s)

MARJELUND ET AL.

Examiner

John Pezzlo

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

### Status

- 1) ☒ Responsive to communication(s) filed on 05 July 2005.
- 2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

### Disposition of Claims

- 4) ☒ Claim(s) 2-7,9 and 11-13 is/are pending in the application.
- 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 2-7,9 and 11-13 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

### Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☒ The drawing(s) filed on 12 November 2003 is/are: a) ☒ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

### Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some \* c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
  - ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.
  - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

### Attachment(s)

- |  |   |
|--|---|
| 1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)  | 4) <input type="checkbox"/> Interview Summary (PTO-413)<br>Paper No(s)/Mail Date. _____ |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)                                   | 5) <input type="checkbox"/> Notice of Informal Patent Application (PTO-152)             |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)<br>Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____  |

## **DETAILED ACTION**

### ***Claim Objections***

Claim 9 is objected to because of the following informalities: Line 7, "respective a" should be reversed -- a respective --.

Claims 9, and 11-13 – The claims mention a radio network controller and a respective radio transceiver device, which are part of the radio access network. It is not clear what is relationship between the radio network controller and the respective radio transceiver device. The examiner will assume that the respective radio transceiver device is part of the base station and the radio network controller is part of the mobile switching center in order to provide an action on the merits.

Appropriate correction is required.

### ***Claim Rejections - 35 USC § 102***

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

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I. Claims 9, 2-7, and 11-13 are rejected under 35 U.S.C. 102(e) as being anticipated by Pasternak et al. (US 6,654,377 B1) hereinafter Pasternak.

1. Regarding claim 9 – Pasternak discloses obtaining information related to transmission resources required for handling real time traffic in a radio network controller (the base station, callout 100 in Figure 2), refer to Figures 1 and 2 and column 2 lines 35 to 67 and columns 3 and 4, the "virtual framer".

Pasternak discloses reserving transmission resources for handling non-real time traffic dynamically based on a knowledge of overall available transmission resources of a respective radio transceiver device (base sector controller, callouts 204 or 214 in Figure 2) of said radio access network (refer to Figure 1) and the information related to the transmission resources required for handling real time traffic by said respective radio transceiver, refer to "virtual shaper", column 3 lines 44 to 67 and column 4 and column 5 lines 1 to 8.

Pasternak discloses wherein the respectively reserved transmission resources are distinguished on the basis of ATM virtual path identifiers and virtual channel identifiers, refer to column 2 lines 55 to 60, wherein the reserving step preselects the transmission resources for the respective radio transceiver device, refer to Figures 1 and 2 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

Pasternak discloses transmitting prevailing traffic based on an identity of the traffic to be handled by selectively addressing the ATM virtual path identifiers and virtual channel identifiers for the real time/non-real time traffic to be handled, refer to Figures 1 and 2 and 6-8 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

2. Regarding claim 2 – Pasternak discloses said reserving of transmission resources for handling non-real time traffic resides in determining the difference between the overall available transmission resources of said radio transceiver device of said radio access network and the transmission resources required for handling real time traffic, wherein said difference is the reserved transmission resources for the non-real time traffic, refer to Figure 20 and column 15 lines 61 to 65 and column 16, Pasternak discloses both CBR (real time traffic) and VBR (non real time traffic) and the channel bandwidth is given to the CBR and the remaining channel bandwidth is given to VBR on a pre-selection basis (requests) and column 18 lines 37 to 50.

3. Regarding claim 3 – Pasternak discloses said step of obtaining and reserving is carried out repeatedly upon occurrence of an update condition (NCT, next compliant time, or RT request), refer to Figure 20 and column 15 lines 61 to 67 and column 16 lines 1 to 65 and see Figure 19 and column 14 lines 54 to 67 and column 15 lines 1 to 61 and see Figure 17 and column 13 lines 20 to 26 and column 17 lines 1 to 14.

4. Regarding claim 4 – Pasternak discloses said update condition resides in the lapse of an update period (NCT, next compliant time), refer to Figure 20 and column 15 lines 61 to 67 and column 16 lines 1 to 65.

5. Regarding claim 5 – Pasternak discloses said update condition resides in an entering of a RT bearer to the radio network or the leaving of an RT and/or NRT bearer from the network,

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refer to ST (RT, subscriber terminal), ST requests, see Figure 19 and column 14 lines 54 to 67 and column 15 lines 1 to 61 and see Figure 17 and column 13 lines 20 to 26 and column 17 lines 1 to 14.

6. Regarding claim 6 – Pasternak discloses said update condition resides in that a predetermined time of a day is reached, roll over of the clock, refer to column 19 lines 38 to 67 and column 20 lines 1 to 8.

7. Regarding claim 7 – Pasternak discloses in a very first obtaining step, a predetermined value (connection set up time) for the transmission resources required for handling real time traffic is used, and in all subsequent obtaining steps, a detected value of the actually required transmission resources (NCT) for handling real time traffic is used, refer to column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

8. Regarding claim 11 – Pasternak discloses obtain information related to transmission resources required for handling real time traffic in a radio network controller, (the base station, callout 100 in Figure 2), refer to Figures 1 and 2 and column 2 lines 35 to 67 and columns 3 and 4, the "virtual framer".

Pasternak discloses reserve transmission resources for handling non-real time traffic dynamically based on a knowledge of overall available transmission resources of a respective radio transceiver device of said radio access network and the information related to the

transmission resources required for handling real time traffic by said respective radio transceiver, refer to "virtual shaper", column 3 lines 44 to 67 and column 4 and column 5 lines 1 to 8.

Pasternak discloses wherein the respectively reserved transmission resources are distinguished on the basis of ATM virtual path identifiers and virtual channel identifiers, refer to column 2 lines 55 to 60, and reserved by preselecting the transmission resources for the respective radio transceiver device, refer to Figures 1 and 2 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

Pasternak discloses transmit prevailing traffic based on an identity of the traffic to be handled by selectively addressing the ATM virtual path identifiers and virtual channel identifiers for the real time/non-real time traffic to be handled, refer to Figures 1 and 2 and 6-8 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

9. Regarding claim 12 – Pasternak discloses obtaining means for obtaining information related to transmission resources required for handling real time traffic in a radio network controller, (the base station, callout 100 in Figure 2), refer to Figures 1 and 2 and column 2 lines 35 to 67 and columns 3 and 4, the "virtual framer".

Pasternak discloses reserving means for reserving transmission resources for handling non-real time traffic dynamically based on a knowledge of overall available transmission resources of a respective radio transceiver device of said radio access network and the information related to the transmission resources required for handling real time traffic by the said respective radio transceiver, refer to "virtual shaper", column 3 lines 44 to 67 and column 4 and column 5 lines 1 to 8.

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Pasternak discloses wherein the respectively reserved transmission resources are distinguished on the basis of ATM virtual path identifiers and virtual channel identifiers, refer to column 2 lines 55 to 60.

Pasternak discloses transmitting means for transmitting resources for the respective radio transceiver devices and to transmit prevailing traffic based on an identity of the traffic to be handled by selectively addressing the ATM virtual path identifiers and virtual channel identifiers for the real time/non-real time traffic to be handled, refer to Figures 1 and 2 and 6-8 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

10. Regarding claim 13 – Pasternak discloses receive, from a radio access network control device, information relating to reserved transmission resources for handling non-real time traffic and for handling real time traffic, wherein the respectively reserved transmission resources are distinguished on the basis of ATM virtual path identifiers and virtual channel identifiers, refer to "virtual shaper", column 3 lines 44 to 67 and column 4 and column 5 lines 1 to 8.

Pasternak discloses use the reserved transmission resources for transmission, based on the ATM virtual path identifiers and virtual channel identifiers, by allocating respective traffic to corresponding channel elements distinguished on the basis of ATM virtual path identifiers and virtual channel identifiers, refer to Figures 1 and 2 and 6-8 and column 2 lines 35 to 67 and columns 3 and 4 and column 5 lines 1 to 8.

Pasternak discloses reserve by preselecting the transmission resources for the respective radio transceiver device. and transmit prevailing traffic based on an identity of the traffic to be handled by selectively addressing the ATM virtual path identifiers and virtual channel identifiers



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for the real time/non-real time traffic to be handled, refer to Figure 20 and column 15 lines 61 to 65 and column 16, Pasternak discloses both CBR (real time traffic) and VBR (non real time traffic) and the channel bandwidth is given to the CBR and the remaining channel bandwidth is given to VBR on a pre-selection basis (requests) and column 18 lines 37 to 50.

### ***Response to Arguments***

Applicant's arguments with respect to claims 2-7, 9, and 11-13 have been considered but are moot in view of the new ground(s) of rejection.

### ***Conclusion***

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

1. Allen, Jr. et al. (US 6,765,903 B1) discloses an ATM-based distributed network switching system.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to John Pezzlo whose telephone number is (571) 272-3090. The examiner can normally be reached on Monday to Friday from 8:30 AM to 4:30 PM.

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If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Hassan Kizou, can be reached on (571) 272-3088. The fax phone number for the organization where this application or proceeding is assigned is (703) 872-9306.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is (571) 272-2600.

Any response to this action should be mailed to:

Commissioner of Patents and Trademarks

Washington, D.C.

or faxed to:

(703) 872-9306

For informal or draft communications, please label "PROPOSED" or "DRAFT"

Hand delivered responses should be brought to:


Jefferson Building

500 Dulany Street

Alexandria, VA.

John Pezzlo

28 July 2005



**JOHN PEZZLO**  
**PRIMARY EXAMINER**